

PCT10

RAW SEQUENCE LISTING

DATE: 01/09/2002

PATENT APPLICATION: US/10/018,105

TIME: 13:56:27

Input Set : A:\10182015999.txt

Output Set: N:\CRF3\01082002\J018105.raw

p.5

4 <110> APPLICANT: ROEMER, Terry
5 BUSSEY, Howard
6 DAVISON, John
8 <120> TITLE OF INVENTION: IDENTIFICATION OF CANDIDA ALBICANS ESSENTIAL FUNGAL
9 SPECIFIC GENES AND USE THEREOF IN ANTIFUNGAL DRUG
10 DISCOVERY
12 <130> FILE REFERENCE: 10182-015
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/018,105
C--> 15 <141> CURRENT FILING DATE: 2001-11-05
17 <150> PRIOR APPLICATION NUMBER: PCT/CA00/00533
18 <151> PRIOR FILING DATE: 2000-05-05
20 <150> PRIOR APPLICATION NUMBER: 60/132,878
21 <151> PRIOR FILING DATE: 1999-05-05
23 <160> NUMBER OF SEQ ID NOS: 6
25 <170> SOFTWARE: PatentIn Ver. 2.1
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 7558
29 <212> TYPE: DNA
30 <213> ORGANISM: Candida albicans
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33 <221> NAME/KEY: CDS
34 <222> LOCATION: (2770)..(7110)
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41 gtgtaccctg tattgatcgt ggaggatgtc gagctccaca actgcacgtg ggagtttccg 180
43 ttacagctat cgcaattcaa ttacaactcc aacatcaggc gacttggtgt gtcgtatgct 240
45 gaaggcaacg cgtttgcggg gtctgaacgg tacagagagt ttttgcaata tggaaacgga 300
47 gaagactttt caagtttgga ggagcttacg gtcactgtgg cgagagggag tctcaacagc 360
49 agcgtgatgt cacggttcat gaacactggc aacttcccga gactaagagc attgcggggt 420
51 cttgcaaggg aaggcgcata caacctatcg cattggtttg gaaagttgcc gacaaaacag 480
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57 caaggctgcy aaatatatac gcgtatagac tctactaata aacatccaaa ccagagtga 660
59 aaaaaaaaat acaacacaaa ccagaaaaaa aacaaacgaa ccacttaca gacctatctc 720
61 taccacaaca ccaatgtact ggggtgctact ctttttcgtg tcgatatgca tggccaacac 780
63 ggagacatgc ttggtacggg tgcccagagta ctacaatatt gtaccgcacc cgtcaccat 840
65 atccagggat gccaggttca gtgcgagct ccctcgtctc aacaccaccc acacagtact 900
67 actagactac cccattggat ctatcgacga ccaggatatg tccaacataa tcacagtcac 960
69 atacgatacc gttgcgcaac cacgatcaac actactagtg cgctggaaca actacggaga 1020
71 caatacgttt acgaacggcg acatgctcaa cattaagcta tgctggccgg ccaccatgcc 1080
73 gtacgacttt agcattgacc atgtgtatat gcacagcaac gagttggttg agagtgtgga 1140
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97 caagattagt tgcaccaata atacacgagc agaagttcaa agttggaaaa ttatatgaaa 1860
99 tgtatcctga taaggcgga ctatggggcc taaatgtcaa tcacggacaa aagatatacc 1920
101 taagggttaag agaacatcac aatgataaac tgtttctccc catgggtgat atagtaggga 1980
103 ccttacttca tgaattaaca cacaatttgt atagtgtcca cgatagtaag ttctacaagt 2040
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115 cagaaaccga aagtgttccc aaagaggacg agtacgacac aactcaggtg gagcttatcg 2400
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119 acactgaaga aactccaatt caacctgata acccgaaaac cgcatactc cagcagataa 2520
121 ttgatttaac ttcagataca gaagacatag agccaacatc accagaggta atatgtatag 2580
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127 tttgtttttt ctgaaaagaa acattaacgt gttctactag tttgtcacac tacgacacaa 2760
129 gtctctgaa atg tca ttt gca agg tat atc tac tac acc att gcg gtt gct 2811
130 Met Ser Phe Ala Arg Tyr Ile Tyr Tyr Thr Ile Ala Val Ala
131 1 5 10
133 gtt tta tta aat ttt gtc aaa gct act gaa aat aac aat ttt aaa ctt 2859
134 Val Leu Leu Asn Phe Val Lys Ala Thr Glu Asn Asn Asn Phe Lys Leu
135 15 20 25 30
137 gaa gtt gaa gcg tca tgg agc aat att gat ttc ctt cct agc ttt ata 2907
138 Glu Val Glu Ala Ser Trp Ser Asn Ile Asp Phe Leu Pro Ser Phe Ile
139 35 40 45
141 gag gcc atc gtt ggc ttc aat gac tct ttg tac gaa cag aca att gaa 2955
142 Glu Ala Ile Val Gly Phe Asn Asp Ser Leu Tyr Glu Gln Thr Ile Glu
143 50 55 60
145 aca att ttt ggt tta gga gac act gaa gtg gaa tta gaa gat gat gct 3003
146 Thr Ile Phe Gly Leu Gly Asp Thr Glu Val Glu Leu Glu Asp Asp Ala
147 65 70 75
149 tca gat caa gaa ata tat tct acc gtg atc aac tca tta ggg tta aca 3051
150 Ser Asp Gln Glu Ile Tyr Ser Thr Val Ile Asn Ser Leu Gly Leu Thr
151 80 85 90
153 gat caa gat ttg gat ttt att aat ttt gat tta acc aac aaa aaa cat 3099
154 Asp Gln Asp Leu Asp Phe Ile Asn Phe Asp Leu Thr Asn Lys Lys His
155 95 100 105 110
157 aca cca aga atc gca gcc cat tac gat cac tat tct gat gtt cta act 3147
158 Thr Pro Arg Ile Ala Ala His Tyr Asp His Tyr Ser Asp Val Leu Thr
159 115 120 125
161 aag ttt ggc gat cga ctc aaa agt gaa tgt gca aaa gac tct ttt ggg 3195
162 Lys Phe Gly Asp Arg Leu Lys Ser Glu Cys Ala Lys Asp Ser Phe Gly
163 130 135 140

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| 165 | aat | gca | gtg | gaa | acg | aaa | aat | ggt | caa | att | caa | acg | tgg | tta | cta | tat | 3243 |
| 166 | Asn | Ala | Val | Glu | Thr | Lys | Asn | Gly | Gln | Ile | Gln | Thr | Trp | Leu | Leu | Tyr | |
| 167 | | | 145 | | | | | 150 | | | | | 155 | | | | |
| 169 | aac | gat | aag | ata | tat | tgt | tcg | gct | aat | gat | ttg | ttt | gca | tta | cga | act | 3291 |
| 170 | Asn | Asp | Lys | Ile | Tyr | Cys | Ser | Ala | Asn | Asp | Leu | Phe | Ala | Leu | Arg | Thr | |
| 171 | | 160 | | | | | 165 | | | | | 170 | | | | | |
| 173 | gat | ttg | agt | tct | cat | tct | aca | ctt | tta | ttt | gat | agg | att | att | gga | aaa | 3339 |
| 174 | Asp | Leu | Ser | Ser | His | Ser | Thr | Leu | Leu | Phe | Asp | Arg | Ile | Ile | Gly | Lys | |
| 175 | 175 | | | | | 180 | | | | | 185 | | | | | 190 | |
| 177 | tca | aaa | gat | gca | cct | ttg | gtg | att | tta | tat | gga | agc | ccg | act | gag | gaa | 3387 |
| 178 | Ser | Lys | Asp | Ala | Pro | Leu | Val | Ile | Leu | Tyr | Gly | Ser | Pro | Thr | Glu | Glu | |
| 179 | | | | | 195 | | | | | 200 | | | | | 205 | | |
| 181 | ctg | act | aaa | gat | ttt | ctt | aaa | ata | ttg | tat | cca | gat | gca | aag | gct | gga | 3435 |
| 182 | Leu | Thr | Lys | Asp | Phe | Leu | Lys | Ile | Leu | Tyr | Pro | Asp | Ala | Lys | Ala | Gly | |
| 183 | | | 210 | | | | | | 215 | | | | 220 | | | | |
| 185 | aaa | tta | aag | ttt | gta | tgg | agg | tac | att | cca | ctg | gga | atc | aaa | aaa | ctg | 3483 |
| 186 | Lys | Leu | Lys | Phe | Val | Trp | Arg | Tyr | Ile | Pro | Leu | Gly | Ile | Lys | Lys | Leu | |
| 187 | | | 225 | | | | | 230 | | | | | 235 | | | | |
| 189 | gac | tca | att | tct | gga | tac | ggt | gta | tca | ttg | aaa | atg | gaa | aag | tat | gat | 3531 |
| 190 | Asp | Ser | Ile | Ser | Gly | Tyr | Gly | Val | Ser | Leu | Lys | Met | Glu | Lys | Tyr | Asp | |
| 191 | | 240 | | | | | 245 | | | | | 250 | | | | | |
| 193 | tat | tct | ggt | gca | gaa | gga | aat | cca | aag | tat | gat | ttg | agt | cga | gat | ttc | 3579 |
| 194 | Tyr | Ser | Gly | Ala | Glu | Gly | Asn | Pro | Lys | Tyr | Asp | Leu | Ser | Arg | Asp | Phe | |
| 195 | 255 | | | | | 260 | | | | | 265 | | | | | 270 | |
| 197 | acc | aga | att | aat | gac | tcg | caa | gag | ttg | gtc | ctg | gtc | aat | gaa | aaa | cat | 3627 |
| 198 | Thr | Arg | Ile | Asn | Asp | Ser | Gln | Glu | Leu | Val | Leu | Val | Asn | Glu | Lys | His | |
| 199 | | | | | 275 | | | | | 280 | | | | | 285 | | |
| 201 | tcg | tat | gaa | ctt | ggt | gtt | aaa | ttg | act | tca | ttc | ata | tta | tcc | aat | cgt | 3675 |
| 202 | Ser | Tyr | Glu | Leu | Gly | Val | Lys | Leu | Thr | Ser | Phe | Ile | Leu | Ser | Asn | Arg | |
| 203 | | | 290 | | | | | | 295 | | | | 300 | | | | |
| 205 | tac | aag | agt | act | aaa | tat | gac | ctt | tta | gat | acg | att | tta | acc | aac | ttt | 3723 |
| 206 | Tyr | Lys | Ser | Thr | Lys | Tyr | Asp | Leu | Leu | Asp | Thr | Ile | Leu | Thr | Asn | Phe | |
| 207 | | | 305 | | | | | 310 | | | | | 315 | | | | |
| 209 | ccc | aag | ttt | att | cct | tac | att | gca | cga | tta | cca | aaa | tta | cta | aat | cat | 3771 |
| 210 | Pro | Lys | Phe | Ile | Pro | Tyr | Ile | Ala | Arg | Leu | Pro | Lys | Leu | Leu | Asn | His | |
| 211 | | 320 | | | | | 325 | | | | | 330 | | | | | |
| 213 | gaa | aaa | gtt | aaa | tcc | aaa | gtg | ctt | gga | aat | gaa | gat | ata | ggg | cta | tct | 3819 |
| 214 | Glu | Lys | Val | Lys | Ser | Lys | Val | Leu | Gly | Asn | Glu | Asp | Ile | Gly | Leu | Ser | |
| 215 | 335 | | | | | 340 | | | | | 345 | | | | | 350 | |
| 217 | caa | gac | tcc | tac | gga | ata | tat | atc | aac | ggt | tcc | cca | ata | aat | cca | cta | 3867 |
| 218 | Gln | Asp | Ser | Tyr | Gly | Ile | Tyr | Ile | Asn | Gly | Ser | Pro | Ile | Asn | Pro | Leu | |
| 219 | | | | | 355 | | | | | 360 | | | | | 365 | | |
| 221 | gag | tta | gat | att | tac | aat | cta | ggt | acc | agg | ata | aag | gag | gaa | tta | cag | 3915 |
| 222 | Glu | Leu | Asp | Ile | Tyr | Asn | Leu | Gly | Thr | Arg | Ile | Lys | Glu | Glu | Leu | Gln | |
| 223 | | | 370 | | | | | | 375 | | | | 380 | | | | |
| 225 | act | gtg | aaa | gat | tta | gtg | aaa | ctt | gga | ttt | gat | acc | gta | caa | gca | aag | 3963 |
| 226 | Thr | Val | Lys | Asp | Leu | Val | Lys | Leu | Gly | Phe | Asp | Thr | Val | Gln | Ala | Lys | |
| 227 | | | 385 | | | | | 390 | | | | | 395 | | | | |
| 229 | ctc | ttg | ata | gca | aaa | ttt | gct | tta | ctt | tca | gct | gtt | aaa | caa | aca | caa | 4011 |

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233 ttt cga aat ggg aat aca tta atg ggt aac aat gaa aat aga ttt aaa 4059
234 Phe Arg Asn Gly Asn Thr Leu Met Gly Asn Asn Glu Asn Arg Phe Lys
235 415      420      425      430
237 gtg tat gaa aat gaa ttt aag aag ggt agt tca gaa aag ggt ggg gtc 4107
238 Val Tyr Glu Asn Glu Phe Lys Lys Gly Ser Ser Glu Lys Gly Gly Val
239      435      440      445
241 ttg ttt ttc aat aac att gaa tta gac aac aca ttc aag gag tac acc 4155
242 Leu Phe Phe Asn Asn Ile Glu Leu Asp Asn Thr Phe Lys Glu Tyr Thr
243      450      455      460
245 act gat cgt gag gag gca tat tta gga gtt ggt tct cat aaa ctt aag 4203
246 Thr Asp Arg Glu Glu Ala Tyr Leu Gly Val Gly Ser His Lys Leu Lys
247      465      470      475
249 cca aat caa att ccg tta ttg aaa gag aac atc cat gat tta att ttc 4251
250 Pro Asn Gln Ile Pro Leu Leu Lys Glu Asn Ile His Asp Leu Ile Phe
251      480      485      490
253 gca tta aat ttt ggg aac aaa aac caa ttg cgg gtg ttt ttc act tta 4299
254 Ala Leu Asn Phe Gly Asn Lys Asn Gln Leu Arg Val Phe Phe Thr Leu
255 495      500      505      510
257 tct aag gtg att ttg gac tcc ggt ata cct caa caa gtt gga gtt ttg 4347
258 Ser Lys Val Ile Leu Asp Ser Gly Ile Pro Gln Gln Val Gly Val Leu
259      515      520      525
261 ccc gtt ata gga gat gac cca atg gat ctg tta ctc gct gag aaa ttt 4395
262 Pro Val Ile Gly Asp Asp Pro Met Asp Leu Leu Leu Ala Glu Lys Phe
263      530      535      540
265 tat tgg att gct gag aaa tca agc aca caa gag gca tta gca ata ttg 4443
266 Tyr Trp Ile Ala Glu Lys Ser Ser Thr Gln Glu Ala Leu Ala Ile Leu
267      545      550      555
269 tat aaa tat ttt gaa tca aac agt cca gat gaa gtt gat gac tta tta 4491
270 Tyr Lys Tyr Phe Glu Ser Asn Ser Pro Asp Glu Val Asp Asp Leu Leu
271      560      565      570
273 gat aaa gtg gaa gta ccc gaa gat tat aaa gtg gat tat aat cat gtg 4539
274 Asp Lys Val Glu Val Pro Glu Asp Tyr Lys Val Asp Tyr Asn His Val
275 575      580      585      590
277 tta aac aag ttt tct ata tca act gct tcg gtc att ttc aat ggg gtt 4587
278 Leu Asn Lys Phe Ser Ile Ser Thr Ala Ser Val Ile Phe Asn Gly Val
279      595      600      605
281 att tac gat tta aga gca cca aac tgg cag att gca atg agt aaa caa 4635
282 Ile Tyr Asp Leu Arg Ala Pro Asn Trp Gln Ile Ala Met Ser Lys Gln
283      610      615      620
285 ata tcc cag gac att tca ctt att aaa act ttc ttg aga cag gga cca 4683
286 Ile Ser Gln Asp Ile Ser Leu Ile Lys Thr Phe Leu Arg Gln Gly Pro
287      625      630      635
289 ata gag ggt aga ttg aaa gat gtt ctt tac tct aat gca aaa tca gaa 4731
290 Ile Glu Gly Arg Leu Lys Asp Val Leu Tyr Ser Asn Ala Lys Ser Glu
291      640      645      650
293 cgc aat tta cgt ata att cca tta gaa cct agt gac att att tac aag 4779
294 Arg Asn Leu Arg Ile Ile Pro Leu Glu Pro Ser Asp Ile Ile Tyr Lys

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297 aaa atc gac aag gaa tta ata aac aat tca att gca ttc aag aag cta 4827
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299          675          680          685
301 gat aaa gcg cag ggt gtg tct gga aca ttt tgg cta gtg tcg gat ttt 4875
302 Asp Lys Ala Gln Gly Val Ser Gly Thr Phe Trp Leu Val Ser Asp Phe
303          690          695          700
305 acc aag tca gca ata att act caa ttg ata gat ttg tta ttg ctt ctc 4923
306 Thr Lys Ser Ala Ile Ile Thr Gln Leu Ile Asp Leu Leu Leu Leu Leu
307          705          710          715
309 aaa aag aaa gca att cag ata aga att att aat act ggg gat aca gat 4971
310 Lys Lys Lys Ala Ile Gln Ile Arg Ile Ile Asn Thr Gly Asp Thr Asp
311          720          725          730
313 gtt ttt gga aaa ttg aaa aca aag ttt aaa tta acc gcc tta aca aat 5019
314 Val Phe Gly Lys Leu Lys Thr Lys Phe Lys Leu Thr Ala Leu Thr Asn
315 735          740          745          750
317 gga caa att gat gaa att att gag att ttg aaa aaa tcc aac gct tca 5067
318 Gly Gln Ile Asp Glu Ile Ile Glu Ile Leu Lys Lys Ser Asn Ala Ser
319          755          760          765
321 agt gca aat aat gat gaa ttg aaa aaa atg ctt gag act aag caa tta 5115
322 Ser Ala Asn Asn Asp Glu Leu Lys Lys Met Leu Glu Thr Lys Gln Leu
323          770          775          780
325 cct gct cat cac tct ttt ttg cta ttc aac tct aga tat ttt aga ttg 5163
326 Pro Ala His His Ser Phe Leu Leu Phe Asn Ser Arg Tyr Phe Arg Leu
327          785          790          795
329 gat gga aat ttt gga tac gag gaa ttg gat caa att ata gag ttt gaa 5211
330 Asp Gly Asn Phe Gly Tyr Glu Glu Leu Asp Gln Ile Ile Glu Phe Glu
331          800          805          810
333 gta tct caa aga ttg aac tta atc ccg gac atc atg gag gca tat ccg 5259
334 Val Ser Gln Arg Leu Asn Leu Ile Pro Asp Ile Met Glu Ala Tyr Pro
335 815          820          825          830
337 gat gag ttt agg tcg aag aag gta agt gat ttt aat ctg gtt ttg tct 5307
338 Asp Glu Phe Arg Ser Lys Lys Val Ser Asp Phe Asn Leu Val Leu Ser
339          835          840          845
341 gga tta gac aat atg gac tgg ttt gat ttg gtg act tcc ata gtg aca 5355
342 Gly Leu Asp Asn Met Asp Trp Phe Asp Leu Val Thr Ser Ile Val Thr
343          850          855          860
345 aaa tca ttc cat gtc gac gaa aaa agg ttt att gtt gat gtt aac agg 5403
346 Lys Ser Phe His Val Asp Glu Lys Arg Phe Ile Val Asp Val Asn Arg
347          865          870          875
349 ttt gat ttt agc tca ttg gat ttt tca aac tcg att gat gta acg act 5451
350 Phe Asp Phe Ser Ser Leu Asp Phe Ser Asn Ser Ile Asp Val Thr Thr
351          880          885          890
353 tat gaa gaa aat agt cca gtt gat gta tta ata att ttg aac cct atg 5499
354 Tyr Glu Glu Asn Ser Pro Val Asp Val Leu Ile Ile Leu Asn Pro Met
355 895          900          905          910
357 gat gaa tat tct caa aaa ttg ata agc ctt gtt aat agc att aca gat 5547
358 Asp Glu Tyr Ser Gln Lys Leu Ile Ser Leu Val Asn Ser Ile Thr Asp
359          915          920          925

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Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

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L:14 M:270 C: Current Application Number differs, Replaced Application Number

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:1060 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:1264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5

L:1268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5

L:1282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5

L:1567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5